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MANAGEMENT-IN-CONFIDENCE

file 1311/13

EXC  
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LOOSE MINUTE

D/SSC/SM511/870/01/1401

3 March 1989

SM505 (Mr Chandler)  
SM611 (Mr Evans)  
NA112 (Mr Briscoe)  
DMS(N) (Mr Morton)  
Subs 11 (Mr Jordan) *TM*  
Sec(FS) (Mr Whiteway)  
SMS11 (Mr Pearson)

UNDERWATER STORAGE OF DECOMMISSIONED NUCLEAR SUBMARINES

Reference: Draft Feasibility Study D/SSC/SM505/867/7/22 dated February 1989

1. The reference considers the general requirements for underwater storage of a decommissioned nuclear submarine. This draft necessarily draws on previous studies for Dreadnought disposal. A different form of presentation would be required for the general problem of disposal of '18 SSNs and 4 SSBNs'. The SSBNs may present a substantially different problem.

2. My detailed comments are given below; all assume an application for Dreadnought.

Preparation

rag  
Fo:

With the R.C. filled with water, there would probably be no requirement for a relief valve. I suspect there would be sufficient elastic flexibility in the structure to take up compression/thermal effects. I do not think the bulkheads would be subjected to large differential pressure. This may help the structural and containment justification.

Preparation of Hull for Towing

The preparation for towing is a key issue. Certainly the measures presented (full survey of all ~~blank~~, full hull preservation and renewal of hull anodes) will be required. However, we may need more than this. If we are to have a solution for 'not less than 20 years and not more than 100 years' we probably need contract/ARE advice. 99.9 years is completely outside our experience.

Towing skeg and dummy propeller. The tow is still appreciable (6 days?). As we have a current solution, I suggest we use it.

Cutting down the fin - this will increase GM. I would need to check the new predicted condition to determine if this is necessary. Is the underwater profile comment aimed at post scuttling?

I support the rest of this section.

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